



COPY OF PAPERS  
ORIGINALLY FILED

Docket: A-59...-2/RFT/NBC (468250-14)

1645

RECEIVED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SEP 12 2002

First Named Inventor:	Henry A. Lester	Examiner:	Unknown
Application No.:	09/812,074		
Filing Date:	March 19, 2001		
Title:	DNA ENCODING INWARD RECTIFIER, G-PROTEIN ACTIVATED, MAMMALIAN, POTASSIUM KGA CHANNEL AND USES THEREOF	Group Art Unit:	1645

TECH CENTER 1600/2901

#8  
Hqj  
9/18/02

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR 1.97(B)

Commissioner for Patents  
Washington, D.C. 20231

I hereby certify that this document is being sent via First Class U.S. mail addressed to: Commissioner for Patents, Washington, D.C. 20231 on 9-4, 2002.

Marjorie Jost  
Marjorie Jost

Dear Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO-1449. Since copies of these references were provided either by Applicants or the Examiner in the following related U.S. Applications, No. 09/042,494, filed March 16, 1998 and issued as Pat. No. 6,255,459, or No. 08/066,371, filed May 21, 1998 and issued as Pat. No. 5,747,278, upon which the instant application relies for its priority date, in accordance with 37 C.F.R. § 1.98(d), no copies of these references are enclosed.

None of the foregoing references are believed to disclose the invention as claimed. Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission that the reference constitutes prior art against the invention claimed in the above-identified application. Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

As far as in known to the undersigned, this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits as set forth in 37 C.F.R. § 1.97(b), and therefore no statement or fee is required. While no fee is believed to be due, if this belief is in error the Commissioner is authorized to charge any fees which may be required, or

• Application No.: 09/812 4  
Filing Date: March 19, 2001

credit any overpayment to Deposit Account No. 50-2319 (Our Order No. A-59891-1/RFT/NBC (468250-14)).

Respectfully submitted,  
DORSEY & WHITNEY LLP

Dated: 9-4-02  
Four Embarcadero Center, Suite 3400  
San Francisco, CA 94111-4187  
Telephone: (415) 781-1989  
Facsimile: (415) 398-3249

BY: Nancy Capps  
Nancy B. Capps, Reg. No. 45,638 for  
Richard F. Trecartin, Reg. No. 31,801  
Filed under 37 C.F.R. § 1.34(a)

<b>PTO-1449</b> (Rev. 2-32) <b>PATENT AND TRADEMARK OFFICE</b> <b>SEP 10 2002</b> <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use several sheets if necessary)	ATTY DOCKET NO. A-59891-2	APPLICATION NO. 09/812,074
	APPLICANT Henry A. Lester	
	FILING DATE March 19, 2001	GROUP ART UNIT 1645

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Inventor Name	Class	Sub-class	Filing Date (if appropriate)
A1	5,744,594	04/1998	Ademan et al.			

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Sub-class	Translation No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initial	Document Description
C1	Adams, M.D. et al., "Sequence identification of 2,375 human brain genes", Nature 355:632-634 (1992)
C2	Adams, M.D. et al., Genbank Acc. No. M78731 (database record) (1992)
C3	Ho, K. et al., "Cloning and expression of an inwardly rectifying ATP-regulated potassium channels", Nature 362:31-38 (1993)
C4	Kubo, Y. et al., "Primary structure and functional expression of a mouse inward rectified potassium channel", Nature 362:127-133 (1993)
C5	Karschin, A. et al., "Heterologously expressed serotonin 1A receptors couple to muscarinic K <sup>+</sup> channels in heart", Proc. Natl. Acad. Sci. USA 88:5694-5698 (1991)
C6	Dascal, N. et al., "Atrial G protein-activated K <sup>+</sup> channel: expression cloning and molecular properties", Proc. Natl. Acad. Sci. USA 90:10235-10239 (1993)
C7	Dascal, N. et al., "Expression of atrial G-protein-activated potassium channel in Xenopus oocytes", Proc. Natl. Acad. Sci. USA 90:6596-6600 (1993)
C8	Hemmings, B.A. et al., "α- and β-Forms of the 65-kDa subunit of protein phosphatase 2A have a similar 39 amino acid repeating structure", Biochemistry 29:3166-3173 (1990)
C9	Sambrook, et al., "Chap. 11 Synthetic Oligonucleotide Probes", Molecular Cloning 2 <sup>nd</sup> ed. New York, Cold Spring Harbor (1989)
C10	Lesage, F. et al., "Cloning provides evidence for a family of inward rectifier and G-protein coupled K <sup>+</sup> channels in the brain", FEBS Letters 353:37-42 (1994)
C11	Sakmann, B. et al., "Acetylcholine activation of single muscarinic K <sup>+</sup> channels in isolated pacemaker cells of the mammalian heart", Nature 303:250-253 (1983)
C12	Yatani, Y. et al., "Direct activation of mammalian atrial muscarinic potassium channels by GTP regulatory protein G <sub>K</sub> ", Science 235:207-211 (1987)
C13	Kubo, Y. et al., "Primary structure and functional expression of a rat G-protein-coupled muscarinic potassium channel", Nature 364:802-806 (1993)
C14	Adams, R.L.P. et al., "The biochemistry of the nucleic acids", 9 <sup>th</sup> ed. London: Chapman and Hall, p. 124 (1981)
C15	Brown, A.M., "Regulation of heartbeat by G protein-coupled ion channels", Am. J. Physiol., 259(6):H1621-H1628 (1990)
C16	Kirsch, G.E. et al., "Trpsin activation of atrial muscarinic K <sup>+</sup> channels". Am. J. Physiol., 26(1):H334-H338 (1989)
C17	Aldrich, R., "Potassium channels: Advent of a new family", Nature 362:107-108 (1993)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.